```
Set       Items    Description
S1          12     AU=(BANCTEL F? OR BANCTEL, F?)
S2          12     AU=(PIETRE A? OR PIETRE, A?)
S3          12     S1 AND S2
S4           3     (S1 OR S2) AND (DATASTRUCTURE? OR DATA()STRUCTURE? OR TREE
                   OR BTREE? OR TREES OR DIRECTORY OR DIRECTORIES OR TRIES)
S5          12     S3 OR S4
S6          12     IDPAT (sorted in duplicate/non-duplicate order)
S7           4     IDPAT (primary/non-duplicate records only)
File 347:JAPIO Nov 1976-2004/Oct(Updated 050209)
         (c) 2005 JPO & JAPIO
File 350:Derwent WPIX 1963-2005/UD,UM &UP=200517
         (c) 2005   Thomson Derwent
File 348:EUROPEAN PATENTS 1978-2005/Feb W04
         (c) 2005 European Patent Office
File 349:PCT FULLTEXT 1979-2002/UB=20050310,UT=20050303
         (c) 2005 WIPO/Univentio
```

DIALOG(R)File 350:Derwent WPIX
(c) 2005 Thomson Derwent. All rts. reserv.

013525211   **Image available**
WPI Acc No: 2001-009417/200102
XRPX Acc No: N01-007100
  Method of modification of a protocol between distributed objects
Patent Assignee: ALCATEL (COGE); ALCATEL SA (COGE); ALCATEL ALSTHOM CIE
  GEN ELECTRICITE (COGE)
Inventor: **BANCTEL F ; PIETRE A**
Number of Countries: 029 Number of Patents: 006
Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week	
EP 1045306	A1	20001018	EP 2000400982	A	20000410	200102	B
AU 200027640	A	20001019	AU 200027640	A	20000410	200102	
CA 2302852	A1	20001015	CA 2302852	A	20000329	200102	
FR 2792435	A1	20001020	FR 994713	A	19990415	200102	
JP 2000339280	A	20001208	JP 2000114074	A	20000414	200104	
US 6618765	B1	20030909	US 2000550295	A	20000414	200361	

Priority Applications (No Type Date): FR 994713 A 19990415
Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
EP 1045306	A1	F	9	G06F-009/46	

    Designated States (Regional): AL AT BE CH CY DE DK ES FI FR GB GR IE IT
    LI LT LU LV MC MK NL PT RO SE SI

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
AU 200027640	A			H04L-012/66	
CA 2302852	A1	F		H04L-029/06	
FR 2792435	A1			G06F-019/00	
JP 2000339280	A		7	G06F-015/16	
US 6618765	B1			G06F-009/44	

Abstract (Basic): EP 1045306 A1
      NOVELTY - The method sets up a personalized notification protocol
  between an object X in a client process and an object S in a server
  process. The client object is assigned a connection (CP3) to the server
  object. The connection has a vector interface allowing an object-object
  protocol between client and connection point via a connection proxy and
  stub, which provide a known notification protocol.
      USE - Distributed environments operating under the Object Request
  Broker management environment
      ADVANTAGE - Allows alteration of protocol between distributed
  objects without need to recompile, and allows alteration or protocol
  between more than two objects.
      DESCRIPTION OF DRAWING(S) - The drawing shows a block diagram of
  connection between client and server
      Client process object (X)
      Server process object (S)
      Assigned connection (CP3)
      pp; 9 DwgNo 3/4
Title Terms: METHOD; MODIFIED; PROTOCOL; DISTRIBUTE; OBJECT
Derwent Class: T01
International Patent Class (Main): G06F-009/44; G06F-009/46; G06F-015/16;
  G06F-019/00; H04L-012/66; H04L-029/06
International Patent Class (Additional): G06F-015/177
File Segment: EPI

DIALOG(R)File 350:Derwent WPIX
(c) 2005 Thomson Derwent. All rts. reserv.

013525088   **Image available**
WPI Acc No: 2001-009294/200102
XRPX Acc No: N01-006988
   **Implementing a tree system for distributed objects by storing in a
   parent object the address of a son object if in the same process and
   information sending enquiry back to central directory if not**
Patent Assignee: ALCATEL (COGE); ALCATEL SA (COGE)
Inventor: **BANCTEL F ; PIETRE A**
Number of Countries: 029 Number of Patents: 006
Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week	
EP 1041498	A1	20001004	EP 2000400870	A	20000330	200102	B
FR 2791788	A1	20001006	FR 994072	A	19990401	200102	
WO 200060452	A2	20001012	WO 2000FR802	A	20000330	200102	
AU 200036629	A	20001023	AU 200036629	A	20000330	200107	
AU 747472	B	20020516	AU 200036629	A	20000330	200244	
JP 2002541544	W	20021203	JP 2000609878	A	20000330	200309	
			WO 2000FR802	A	20000330		

Priority Applications (No Type Date): FR 994072 A 19990401
Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
EP 1041498	A1	F	9	G06F-017/30	

   Designated States (Regional): AL AT BE CH CY DE DK ES FI FR GB GR IE IT
   LI LT LU LV MC MK NL PT RO SE SI

FR 2791788	A1			G06F-012/08	
WO 200060452	A2	F		G06F-009/00	

   Designated States (National): AU CA JP US

AU 200036629	A			G06F-009/00	Based on patent WO 200060452
AU 747472	B			G06F-009/00	Previous Publ. patent AU 200036629
					Based on patent WO 200060452
JP 2002541544	W		16	G06F-009/46	Based on patent WO 200060452

Abstract (Basic): EP 1041498 A1
     NOVELTY - A central **directory** (Pr0) controls the search for all
objects and includes a **data structure** (Tab0) which lists all
parent/son relationships with a process address for the final object. A
parent object (A) contains the address of a son object (B) if the
latter is in the same process but otherwise has information to send the
enquiry back to the central **directory** (Pr0) which uses the **data
structure** (Tab0) to search a different indicated process.
     USE - To manage a **tree** system for distributed objects
     ADVANTAGE - The search for an object is not frustrated by an
intermediate process being out of service and the central **directory**
is able to route enquiries to a process or corresponding redundant
process correctly using current system data
     DESCRIPTION OF DRAWING(S) - The drawing shows the central
directory and processes
     Central **directory** (Pr0)
     Data structure (Tab0)
     Parent object (A)
     Son object (BB)
     pp; 9 DwgNo 2/2
Title Terms: IMPLEMENT; **TREE** ; SYSTEM; DISTRIBUTE; OBJECT; STORAGE; PARENT
   ; OBJECT; ADDRESS; SON; OBJECT; PROCESS; INFORMATION; SEND; ENQUIRY; BACK
   ; CENTRAL; **DIRECTORY**
Derwent Class: T01
International Patent Class (Main): G06F-009/00; G06F-009/46; G06F-012/08;
   G06F-017/30
International Patent Class (Additional): G06F-015/16
File Segment: EPI

```
Set      Items    Description
S1      670103    ROOT? ? OR PARENT? ? OR LEAF? ? OR SON OR SONS OR BRANCH? -
                  OR TWIG? ? OR FATHER? ? OR STEM? ?
S2       56913    BTREE OR TREE OR TREES OR TRIES
S3       28097    DATASTRUCT? OR DATA()STRUCTURE?
S4       17132    ACCESS()(PATH OR PATHS OR ROUTE? OR MEANS) OR LAP OR LOGIC-
                  AL()ACCESS?
S5      455503    NAME? OR (CHARACTER? OR ALPHANUMERIC)()(SEQUENC? OR STRING-
                  ?)
S6         446    (CENTRAL OR PRIMAR? OR MAIN)(2N)(DIRECTORY OR DIRECTORIES)
S7        6508    (LOGICAL OR PHYSICAL)(N)(NAME? OR ADDRESS?)
S8      129251    (PROCESS OR PROCESSES OR PROGRAM? OR ENVIRONMENT? OR OPERA-
                  TING()SYSTEM?)(2N)(SAME? OR CONTAIN? OR WITHIN OR WITH()"IN" -
                  OR EMBED? OR INTEGRAT? OR INTEGRAL OR MATCHING OR IDENTICAL? -
                  OR MATCHED?)
S9     1309682    RETURN? OR REFER? OR REDIRECT? OR DIRECTED OR DIRECTING
S10         59    S1(S)(S2 OR S3)(S)S4
S11          1    S10(S)S6
S12         27    S10(S)S5
S13         22    S10(S)S8
S14         31    S10(S)S9
S15         20    S14(S)(S5 OR S6 OR S7)
S16         27    (S11 OR S12 OR S13 OR S15) AND IC=G06F?
S17         27    IDPAT (sorted in duplicate/non-duplicate order)
S18         26    IDPAT (primary/non-duplicate records only)
File 348:EUROPEAN PATENTS 1978-2005/Feb W04
         (c) 2005 European Patent Office
File 349:PCT FULLTEXT 1979-2002/UB=20050310,UT=20050303
         (c) 2005 WIPO/Univentio
```

 18/3,K/3   (Item 3 from file: 348)
DIALOG(R)File 348:EUROPEAN PATENTS
(c) 2005 European Patent Office. All rts. reserv.

00707155
EXTENDED ATTRIBUTES FILE SYSTEM
DATEISYSTEM MIT ERWEITERTEN ATTRIBUTEN
SYSTEME DE FICHIERS A ATTRIBUTS ETENDUS
PATENT ASSIGNEE:
  NOVELL, INC., (1486133), 1555 North Technology Way, Orem, UT 84057-2399,
    (US), (applicant designated states:
    AT;BE;CH;DE;DK;ES;FR;GB;GR;IE;IT;LI;LU;MC;NL;PT;SE)
INVENTOR:
  NEVAREZ, Carlos, A., 424 West 1010 North, Orem, UT 84057, (US)
LEGAL REPRESENTATIVE:
  Hanna, Peter William Derek et al (72341), Tomkins & Co., 5 Dartmouth Road
    , Dublin 6, (IE)
PATENT (CC, No, Kind, Date): EP 733238   A1   960925 (Basic)
                              EP 733238   A1   970108
                              EP 733238   B1   980401
                              WO 9516241   950615
APPLICATION (CC, No, Date):   EP 95905869 941207; WO 94US14097 941207
PRIORITY (CC, No, Date): US 165971 931210
DESIGNATED STATES: AT; BE; CH; DE; DK; ES; FR; GB; GR; IE; IT; LI; LU; MC;
  NL; PT; SE
INTERNATIONAL PATENT CLASS: **G06F-017/30**
NOTE:
  No A-document published by EPO
LANGUAGE (Publication,Procedural,Application): English; English; English
FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS B	(English)	9814	1157
CLAIMS B	(German)	9814	1237
CLAIMS B	(French)	9814	1306
SPEC B	(English)	9814	3356
Total word count - document A			0
Total word count - document B			7056
Total word count - documents A + B			7056

INTERNATIONAL PATENT CLASS: **G06F-017/30**

...SPECIFICATION 1993, implements a method for dynamically expanding and
  rapidly accessing file directories in a UNIX **tree** -based file directory
  system. The technique provides **name** -oriented accessing of files having
  at least zero records, any **access**   **path** to files and records through
  an external store coupling the computer being defined by a...
...a unique serial number assigned to the record and the unique serial
  number of any **parent** record entry. Each record entry includes the
  token, file or record **name** , and external store address or pointer. The
  name directory is a subset of the attribute directory. A traverse
  through the tokens constitutes a **leaf** -searchable B- **tree** . The **names**
  directory provides fast access into the attribute directory. Thus, Baird,
  et al., is **directed** to a method for dynamically expanding and rapidly
  accessing file directories.
    Another prior art method...

00745491   **Image available**
TECHNIQUES FOR PERFORMING A DATA QUERY IN A COMPUTER SYSTEM
**TECHNIQUES   D'EXECUTION   D'UNE   DEMANDE   DE   DONNEES   DANS   UN   SYSTEME
    INFORMATIQUE**
Patent Applicant/Assignee:
  GTE LABORATORIES INCORPORATED, 1209 Orange Street, Wilmington, DE 19801,
    US, US (Residence), US (Nationality)
Inventor(s):
  PONTE Jay, 5605 Stearns Hill Road, Waltham, MA 02451, US
Legal Representative:
  SUCHYTA Leonard Charles, Gte Service Corporation, 600 Hidden Ridge Road,
    MC HQE03G13, Irving, TX 75038, US
Patent and Priority Information (Country, Number, Date):
  Patent: WO 200058863 A1 20001005 (WO 0058863)
  Application: WO 2000US8450 20000330 (PCT/WO US0008450)
  Priority Application: US 99283268 19990331; US 99282730 19990331
Designated States:
(Protection type is "patent" unless otherwise stated - for applications
prior to 2004)
  AE AG AL AM AT AU AZ BA BB BG BR BY CA CH CN CR CU CZ DE DK DM DZ EE ES
  FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT LU
  LV MA MD MG MK MN MW MX NO NZ PL PT RO RU SD SE SG SI SK SL TJ TM TR TT
  TZ UA UG UZ VN YU ZA ZW
  (EP) AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE
  (OA) BF BJ CF CG CI CM GA GN GW ML MR NE SN TD TG
  (AP) GH GM KE LS MW SD SL SZ TZ UG ZW
  (EA) AM AZ BY KG KZ MD RU TJ TM
Publication Language: English
Filing Language: English
Fulltext Word Count: 49717

Main International Patent Class: **G06F-017/10**
International Patent Class: **G06F-005/14 ...**

... G06F-017/30
Fulltext Availability:
  Claims

Claim
... 1 @@@
  CONGIGURATION STATE
  @ 452 FILE FILE
  I
  PHTML FILES INSTANTIATOR
  i
  PHTML INTERPRETER 14
  EXECUTION
   TREES --
  j
  454
  t
  OTHER DATA
  FIG. 8
  /71
  EM
  SUj -p
  'f@; -

-Sh o Consumer...

...are listed below. To select a category, simply click on it and you will
be **returned** to a search form with the category filled in.
A B Q D E F...

...By Distance
GTE'S YELLOW PAGES Search by Distance MORE TOOLS
Enter Caregory or Business **Name** :
Category: restaurant **Lap** Categories
 Business earch Tips
1830 **Name** : MM]
Search Within Miles Of: [@@I
Consumer Advertise
Street: Keywords C@Q Guide@ with Us...

...closest businesses presented first. Each business listing will include
the distance in miles from the **reference** location that you provided.
If you enter a street address, the distance will be measured...

...YELLOW PAGES MORE TOOLS
Enter Category (Top Categories
I 1
1802 SHOES 1 7
Business **Name** (e.g., GTE) OH Shoo Online D Jd' A(Us
2 Enter City (optional)
1804...Home mmo@ Categories =*@ Results
Shoes-Custom Made (1 - 2 of 2)
Click (9 or business **name** for map and more info Shop Online for
computeps
Buy a mailing list for this...

...Matching Business
This business matches the telephone number you entered. Please click on
the
business **name** if this is the correct business:
Matching Blue Cross & Blue Shield
Business: (617) 832-5000...entered information.
Fields marked 0 are required as part of your list
Business information
Business **Name** : 0 1 Blue Cross & Blue Shield
(Use normal capitalization, e.g., GTE SuperPages, not GTE...PHTML FILE
STORAGE
PHTML REPRESENTATION AND EXPAND STORING THE
FROM PHTML EXECUTION EXPANSION IN THE
 TREE PHTMLCACHE
I i@ I
EXECUTE PHTML FILE PORTIONS 954
IN ACCORDANCE WITH
USER QUERY TO...

...OTHER 966
SEARCH DATA
FORMULATE RESULT DATA SET
IN ACCORDANCE WITH 968
USER QUERY REQUEST
 RETURN RESULT DATA 970
TO PARSE DRIVER

FIG. 30

/71
KOFFICE 1600
TRANSFER
COMPLETE
1602
604....

...MARK-UP FILES
1646
FIG. 32
200
NO YES
QUERY CACHE
I?
204
LOOK FOR **PARENT** SEARCH RESULTS IN DAT USE DATA Q1
QUERY CACHE BY DROPPING TERMS
205
NO SEARCH YES
RESULTS IN D
QUERY CACHE
ir FOR EACH **PARENT** , CAL,
212
USE ALTERNATE
TECHNIQUE
CHOOSE MININUM COST PARE
214 1
APPLY MINIMUM COST DERIV...

...34
240
DETERMINE A SUBSET OF QUERY TERMS
THAT UNIQUELY MAP A QUERY TO A **NAME**
v 244
FORM A QUERY STRING USING THE SUBSET OF
QUERY TERMS AS THEY MAY APPEAR IN EACH
PARTICULAR QUERY
248
DETERMINE IF **NAME** CORRESPONDS TO A DATA
SET IN THE QUERY CACHE
FIG. 35
/71
2 5 0...

...254
BUSINESS LISTING - 2 INFORMATION 256
BUSINESS LISTING - N INFORMATION 258
FIG. 36
CONSTRUCT A **NAME** FOR THE
TOTAL-CITY CACHE 260
CORRESPONDING TO
THE CURRENT QUERY
262
YES TAL-CITY NO
QUERY CACHED
PERFOR@
264 SE
SAVE **REFERENCE** TO
THE CACHED ITEM
BY MOVING TO HOT CACHE
CACHE SE)

IN HC
TO 270
FIG. 38
FIG. 37
/71
FROM 264 & 268
FIG. 37
IF
CONSTRUCT A **NAME** FOR THE 270
MULTI-CITY CACHE CORRESPONDING
TO THE CURRENT QUERY
272
YES NO
UERY CACHED
276
PERFORM MULTI-CITY
SEARCH
SAVE **REFERENCE** TO 274
CACHED RESULTS BY PLACING
IN HOT CACHE 278
CACHE SEARCH RESULTS
IN HOT...

...Farm
GTE's YELLOW PAGES MORE TOOLS
Enter Category (Tor) C eaories)
art supplies
Business **Name** (e.g.,GTE) Shop Online C dd' A(Us
I 0
E t Cat (optional...NO NO 1 MATC
RENCE <= 3 '(1028 NTRY IN DAT)
r1024 NO MATCH
FOUND
USE " **NAME** EDIT DISTANCE 1032
HEURISTIC" TO COMPUTE
THE **NAME** DISTANCE
1036
NO TRY WIT YES
1026 MAXIMUM
YES I N NO SCORE
<1 0...
...TO 1086
FIG. 51 FORM SUBS
FOR ONE OR
SECONDARY SEARCH MATCHING
IF
FIG. 48
" **NAME** MATCH"
CANONIZE **NAME** 1060
ENTRIES
IF
TOKENIZE **NAME** INTO 062
COMPONENTS
ir
PERFORM SETWISE CONTENTS 1064
COMPARISON OF **NAME**
COMPONENTS FOR ENTRIES
1066
SCORE IS 1 POINT PER
MATCHING COMPONENT

if @ 068
RETURN
FIG. 49
"DERIVE SCORE"
ORE IS **NAME** MAT 1080
SCORE + I IF THE ZIP CODE
MATCHES
RMALIZED SCORE = 1082
SCORE/# TOKENS IN...

...D5,2
11SECONDARY S FIG. 48
1086
UPDATE RECOR
I 088
REMOVE',STOP WORDS" FROM
NAME FIELD
EARCH 0 DATABAS 1090
PERFOR S
BASED ON CONJUNCTION OF
TOKENIZED **NAME** FIELD
COMPONENTS AND ZIP COD
1092
ORE THA YES
NO MATCHING
ENTRI
ATCH
TO @1010...

...1470
MATCHING IF RECORD IDENTIF INSERT UPDATE IF DELETE IF RECORD IDENTIFIER
UF AND HEADING **NAME** MATCH RECORD IDENTIFIER IS NEW OF AN EXISTING
RECORD OF Ej'
IS NOT IN THE...

...WORKING
COPY OF CATEGORY FILE
FIG. 56
1442
520
FIND DUPLICATE CATEGORIES
IF
CHOOSE CATEGORY **NAME** MOST FREQUENTLY USED
BY SEARCHING THE BUSINESS LISTING FILES FOR FREQUENCY
DETERMINATION
I F 15,'
PATCH BUSINESS LISTING FILES WITH UPDATE CATEGORY
IDENTIFIERS AND **NAMES** AS APPROPRIATE
IF 153(
UPDATE CATEGORY FILE WITH COLLAPSED CATEGORY
FIG. 57
TOKENIZE FIRST CATEGORY **NAME** 1500
T70 1504
F KENIZE NEXT CATEGORY **NAME**
Ilr 1506
COMPARE TOKENIZED CURRENT AND
PREVIOUS CATEGORY **NAMES** AND DERIVE
SCORE IN ACCORDANCE WITH NUMBER OF
MATCHING **NAME** COMPONENTS
1508

NO YES
>75%
1510 L
ADVANCE TO NEXT CATEGORY CATEGORIES ARE
DUPLICATES PROP...

```
Set      Items    Description
S1       670103   ROOT? ? OR PARENT? ? OR LEAF? ? OR SON OR SONS OR BRANCH? -
                  OR TWIG? ? OR FATHER? ? OR STEM? ?
S2        56913   BTREE OR TREE OR TREES OR TRIES
S3        28097   DATASTRUCT? OR DATA()STRUCTURE?
S4        17132   ACCESS()(PATH OR PATHS OR ROUTE? OR MEANS) OR LAP OR LOGIC-
                  AL()ACCESS?
S5       455503   NAME? OR (CHARACTER? OR ALPHANUMERIC)()(SEQUENC? OR STRING-
                  ?)
S6          446   (CENTRAL OR PRIMAR? OR MAIN)(2N)(DIRECTORY OR DIRECTORIES)
S7         6508   (LOGICAL OR PHYSICAL)(N)(NAME? OR ADDRESS?)
S8       129251   (PROCESS OR PROCESSES OR PROGRAM? OR ENVIRONMENT? OR OPERA-
                  TING()SYSTEM?)(2N)(SAME? OR CONTAIN? OR WITHIN OR WITH()"IN" -
                  OR EMBED? OR INTEGRAT? OR INTEGRAL OR MATCHING OR IDENTICAL? -
                  OR MATCHED?)
S9      1309682   RETURN? OR REFER? OR REDIRECT? OR DIRECTED OR DIRECTING
S10          59   S1(S)(S2 OR S3)(S)S4
S11           1   S10(S)S6
S12          27   S10(S)S5
S13          22   S10(S)S8
S14          31   S10(S)S9
S15          20   S14(S)(S5 OR S6 OR S7)
S16          27   (S11 OR S12 OR S13 OR S15) AND IC=G06F?
S17          27   IDPAT (sorted in duplicate/non-duplicate order)
S18          26   IDPAT (primary/non-duplicate records only)
S19      112813   ROOT? ? OR PARENT? ? OR FATHER? ?
S20         240   (S2 OR S3)(S)S19(S)S8
S21           4   S20(S)S6
S22          31   S10(S)S9
S23          16   (S21 OR S22) NOT S16
S24          11   S23 AND IC=G06F?
S25           8   S24 NOT AD=19990401:20010401
S26           6   S25 NOT AD=20010401:20050501
File 348:EUROPEAN PATENTS 1978-2005/Feb W04
         (c) 2005 European Patent Office
File 349:PCT FULLTEXT 1979-2002/UB=20050310,UT=20050303
         (c) 2005 WIPO/Univentio
```

00367282
Method of performing operations in a relational data base management system.
Verfahren zur Durchfuhrung von Operationen in einem relationalen Datenbankverwaltungssystem.
Methode d'execution d'operations dans un systeme relationel de gestion de base de donnees.
PATENT ASSIGNEE:
  International Business Machines Corporation, (200120), Old Orchard Road,
    Armonk, N.Y. 10504, (US), (applicant designated states: DE;FR;GB)
INVENTOR:
  Crus, Richard Anthony, 1980 Dorrance Court, San Jose, CA 95125, (US)
  Engles, Robert William, 6899 Hampton Drive, San Jose, CA 95120, (US)
  Haderle, Donald James, 812 Lilac Way, Los Gatos, CA 95030, (US)
  Herron, Howard Winston, 1444 Bing Drive, San Jose, CA 95129, (US)
LEGAL REPRESENTATIVE:
  Burt, Roger James, Dr. (52152), IBM United Kingdom Limited Intellectual
    Property Department Hursley Park, Winchester Hampshire SO21 2JN, (GB)
PATENT (CC, No, Kind, Date): EP 351209 A2 900117 (Basic)
                              EP 351209 A3 921014
                              EP 351209 B1 940629
APPLICATION (CC, No, Date):   EP 89307075 890712;
PRIORITY (CC, No, Date): US 219513 880715
DESIGNATED STATES: DE; FR; GB
INTERNATIONAL PATENT CLASS: **G06F-015/40**
ABSTRACT WORD COUNT: 155

LANGUAGE (Publication,Procedural,Application): English; English; English
FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS A	(English)	EPBBF1	470
CLAIMS B	(English)	EPBBF1	480
CLAIMS B	(German)	EPBBF1	450
CLAIMS B	(French)	EPBBF1	477
SPEC A	(English)	EPBBF1	10268
SPEC B	(English)	EPBBF1	10349
Total word count - document A			10738
Total word count - document B			11756
Total word count - documents A + B			22494

INTERNATIONAL PATENT CLASS: **G06F-015/40**

...SPECIFICATION which uses only a single pass through the data.
    A third prior art version of **referential** integrity incorporates paths
or "links" representing constraints between a **parent** and its dependent
records into the basic **access** **path** to the **parent** data. This method
of "linked" **referential** constraints is typically implemented by using a
chained list to go from a **parent** to all its dependents, or by using a
B- **tree** rooted in the **parent** to point to all dependents. These linked
methods suffer from several disadvantages. One is that the enforcement of
such linked **referential** constraints requires special provisions for
detecting and resolving self- **referencing** and cyclic constraints.
Another is that constraints cannot be added to ...requires restructuring
the data. There is therefore a need for an efficient method of enforcing
referential constraints which allows ready modification of the
constraints without restructuring the data.

One object of...

26/3,K/3   (Item 3 from file: 348)
DIALOG(R)File 348:EUROPEAN PATENTS
(c) 2005 European Patent Office. All rts. reserv.

00351573
Method for obtaining access to data structures without locking.
Verfahren zur Gewinnung von Verriegelungsfreiem Zugriff zu Datenstrukturen.
Methode pour obtenir l'acces a des structures de donnees sans verrouillage.
PATENT ASSIGNEE:
   International Business Machines Corporation, (200120), Old Orchard Road,
      Armonk, N.Y. 10504, (US), (applicant designated states: DE;FR;GB)
INVENTOR:
   Bozman, Gerald Parks, 609 Ramapo Valley Road, Oakland New Jersey, (US)
LEGAL REPRESENTATIVE:
   Schafer, Wolfgang, Dipl.-Ing. (62021), IBM Deutschland
      Informationssysteme GmbH Patentwesen und Urheberrecht, D-70548
      Stuttgart, (DE)
PATENT (CC, No, Kind, Date):   EP 362709 A2 900411 (Basic)
                               EP 362709 A3 920819
APPLICATION (CC, No, Date):   EP 89118049 890929;
PRIORITY (CC, No, Date): US 255000 881007
DESIGNATED STATES: DE; FR; GB
INTERNATIONAL PATENT CLASS: **G06F-015/403 ; G06F-015/419**
ABSTRACT WORD COUNT: 85
LANGUAGE (Publication,Procedural,Application): English; English; English
FULLTEXT AVAILABILITY:
Available Text Language   Update   Word Count
     CLAIMS A (English) EPABF1   1649
     SPEC A   (English) EPABF1   5271
Total word count - document A   6920
Total word count - document B   0
Total word count - documents A + B   6920

INTERNATIONAL PATENT CLASS: **G06F-015/403 ...**

... G06F-015/419

...SPECIFICATION Koffeman, K. L. (Eds.), North-Holland, 1974, pp 385-397,
  which have been called B+- **trees** in Comer, D., "The ubiquitous B- **tree**
  ," ACM Computing Surveys, vol. 11, pp. 121-138, 1979. and B*- **trees** in
  Bayer, R. and Unterauer, K., "Prefix B- **trees** ," ACM Trans. on Database
  Systems, vol. 2, 1 (March 1977), pp. 11-26, and Wedekind. The terminology
  of Comer, is used in the present description to **refer** to **leaf** search
  B- **trees** .
    It is often desirable that weak searchers of B+-trees not be required
  to use...

```
Set      Items     Description
S1    1934197     ROOT? ? OR PARENT? ? OR LEAF? ? OR SON OR SONS OR BRANCH? -
                  OR TWIG? ? OR FATHER? ? OR STEM? ?
S2     483419     BTREE OR TREE OR TREES OR TRIES
S3      96666     DATASTRUCT? OR DATA()STRUCTURE?
S4      21510     ACCESS()(PATH OR PATHS OR ROUTE? OR MEANS) OR LAP OR LOGIC-
                  AL()ACCESS?
S5     674050     NAME? OR (CHARACTER? OR ALPHANUMERIC)()(SEQUENC? OR STRING-
                  ?)
S6        197     (CENTRAL OR PRIMAR? OR MAIN)(2N)(DIRECTORY OR DIRECTORIES)
S7       1245     (LOGICAL OR PHYSICAL)(N)(NAME? OR ADDRESS?)
S8     192890     (PROCESS OR PROCESSES OR PROGRAM OR ENVIRONMENT? OR OPERAT-
                  ING()SYSTEM?)(2N)(SAME? OR CONTAIN? OR WITHIN OR "WITH"()IN OR
                  EMBED? OR INTEGRAT? OR INTEGRAL OR MATCHING OR IDENTICAL? OR
                  MATCHED)
S9    1933284     RETURN? OR REFER? OR REDIRECT? OR DIRECTED OR DIRECTING OR
                  DIRECTS
S10         0     S1 AND S2 AND S3 AND S4 AND S8
S11       482     S1 AND S2 AND S8
S12        39     S11 AND (S4 OR S9)
S13        18     S11 AND S5
S14         0     S11 AND S6
S15         0     S11 AND S7
S16         0     S1 AND S2 AND S6 AND S7
S17        55     S12 OR S13
S18        41     RD (unique items)
S19        21     S18 NOT PY>1999
File    8:Ei Compendex(R) 1970-2005/Mar W1
          (c) 2005 Elsevier Eng.  Info. Inc.
File   35:Dissertation Abs Online 1861-2005/Feb
          (c) 2005 ProQuest Info&Learning
File   65:Inside Conferences 1993-2005/Mar W2
          (c) 2005 BLDSC all rts. reserv.
File    2:INSPEC 1969-2005/Mar W1
          (c) 2005 Institution of Electrical Engineers
File   94:JICST-EPlus 1985-2005/Feb W1
          (c)2005 Japan Science and Tech Corp(JST)
File  111:TGG Natl.Newspaper Index(SM) 1979-2005/Mar 17
          (c) 2005 The Gale Group
File    6:NTIS 1964-2005/Mar W1
          (c) 2005 NTIS, Intl Cpyrght All Rights Res
File  144:Pascal 1973-2005/Mar W1
          (c) 2005 INIST/CNRS
File   34:SciSearch(R) Cited Ref Sci 1990-2005/Mar W2
          (c) 2005 Inst for Sci Info
File   99:Wilson Appl. Sci & Tech Abs 1983-2005/Feb
          (c) 2005 The HW Wilson Co.
File   95:TEME-Technology & Management 1989-2005/Feb W1
          (c) 2005 FIZ TECHNIK
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744836 ORDER NO: AAD81-09709
DECIDABILITY AND EXPRESSIVENESS OF LOGICS OF PROCESSES
  Author: ABRAHAMSON, KARL RAYMOND
  Degree: PH.D.
  Year: 1980
  Corporate Source/Institution: UNIVERSITY OF WASHINGTON (0250)
  Source: VOLUME 41/11-B OF DISSERTATION ABSTRACTS INTERNATIONAL.
           PAGE 4179. 173 PAGES
  Descriptors: COMPUTER SCIENCE
  Descriptor Codes: 0984

    We define and study several logics of processes. The logics GPL and
MPL are based on a second order tense logic, where the two types of
variable range over computation sequences and points on computation
sequences. GPL is a version of the predicate calculus, similar to Parikh's
general logic. MPL is a modal logic, and is the only modal process logic we
know of which incorporates two fundamentally different types of modality.
When syntactic programs are included in MPL, MPL is at least as expressive
as PDL('+), Parikh's SOAPL, Pnueli's tense logic or Nishimura's **process**
logic, and **contains** both Lamport's linear and **branching** time logics.
    We present a tableau method for deciding validity in MPL, based on
a new type of **directed** graph, called an LL-graph. From the tableau method
we derive a complete proof system for MPL.
    Although GPL and MPL are based on the same notions, we find some
interesting differences between the two. MPL is decidable in double
exponential time, while even a proper subset of GPL, which can express the
same properties as MPL, is nonelementary. We are able to show that GPL is
decidable only when processes are **tree** -like, in Parikh's sense. In
contrast, out method for deciding MPL in general requires processes which
are not **tree** -like.
    Processes are defined on a very abstract level, as sets of
computation sequences. Intrinsic to our definition of a process is the
notion of deadlock. Both GPL and MPL have provisions for explicitly
discussing deadlock, which most other process logics to date ignore.
    We also study extensions to PDL. We show, provided only that basic
programs are indivisible actions, that extending PDL by a concurrency
operator, a global invariance operator and flowgraph programs, among
others, adds no expressive power to PDL. Moreover, there is a better way to
decide formulas in the extended logic than to translate them to PDL. We
extend PDL by adding special Boolean variables, which can be set and
tested. Boolean variable PDL efficiently simulates the above extensions,
and is shown to be decidable by a faster method than by eliminating Boolean
variables.
    We prove a lower bound on the complexity of B-PDL which is a
function of two parameters, the length of the imput, and the number of
variables it contains. The proof involves a compression theorem for
functions of several variables, which may be of general use.

02540290   JICST ACCESSION NUMBER: 95A0791518   FILE SEGMENT: JICST-E
On Cooperative Search in Logic Programming.
ZHOU N-F (1)
(1) Kyushu Inst. Technol., Fukuoka, JPN
ABSTRACT: In this paper, we describe an execution model for executing in
     parallel search programs in logic programming languages and propose
     three scheduling strategies, **namely** , full breadth-first, partial
     breadth-first, and depth-first. This model divides the search space
     among the participating machines, but requires neither communication
     nor dynamic copy. All machines start executing the **same   program**
     independently until **branches** in the search **tree** are encountered. In
     that case, they determine which **branches** to explore. We investigate
     the three scheduling strategies and discuss their advantages and
     disadvantages. We also evaluate the scheduling strategies
     experimentally for two problems: N-queens and the blocks world problem.
     (author abst.)
DESCRIPTORS: logic programming; search problem; parallel processing;
     modeling; scheduling; computer program; logic programming language;
     computer processing system
BROADER DESCRIPTORS: computer programming; problem; treatment;
     operation(processing); software; programming language; formal language;
     language; method
CLASSIFICATION CODE(S): JE08000Z

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Set       Items     Description
S1        513251    ROOT? ? OR PARENT? ? OR LEAF? ? OR SON OR SONS OR BRANCH? -
                        OR TWIG? ? OR FATHER? ? OR STEM? ?
S2         52126    BTREE OR TREE OR TREES OR TRIES
S3          9696    DATASTRUCT? OR DATA()STRUCTURE?
S4         19917    ACCESS()(PATH OR PATHS OR ROUTE? OR MEANS) OR LAP OR LOGIC-
                        AL()ACCESS?
S5        177462    NAME? OR (CHARACTER? OR ALPHANUMERIC)()(SEQUENC? OR STRING-
                        ?)
S6           165    (CENTRAL OR PRIMAR? OR MAIN)(2N)(DIRECTORY OR DIRECTORIES)
S7          4813    (LOGICAL OR PHYSICAL)(N)(NAME? OR ADDRESS?)
S8         59176    (PROCESS OR PROCESSES OR PROGRAM? OR ENVIRONMENT? OR OPERA-
                        TING()SYSTEM?)(2N)(SAME? OR CONTAIN? OR WITHIN OR WITH()"IN" -
                        OR EMBED? OR INTEGRAT? OR INTEGRAL OR MATCHING OR IDENTICAL? -
                        OR MATCHED?)
S9       1096059    RETURN? OR REFER? OR REDIRECT? OR DIRECTED OR DIRECTING
S10        12561    S1 AND (S2 OR S3)
S11           12    S10 AND S4
S12          214    S10 AND S5
S13           29    S12 AND (S7 OR S8 OR S9)
S14            5    S10 AND S6
S15            9    S1 AND S6
S16            0    (S1 OR S2 OR S3) AND S6(3N)S9
S17            2    (S1 OR S2 OR S3) AND S6 AND S9
S18        37060    (S1 OR S2 OR S3) AND S9
S19            7    S18 AND (S4 OR S5) AND S8
S20            0    S18 AND S7 AND S8
S21           57    S11 OR S13 OR S14 OR S15 OR S17 OR S19
S22           34    S21 AND IC=G06F?
S23            8    S21 AND MC=(T01-J05B2B OR T01-J05B3)
S24           34    S22 OR S23
S25           34    IDPAT (sorted in duplicate/non-duplicate order)
S26           34    IDPAT (primary/non-duplicate records only)
File 347:JAPIO Nov 1976-2004/Nov(Updated 050309)
        (c) 2005 JPO & JAPIO
File 350:Derwent WPIX 1963-2005/UD,UM &UP=200518
        (c) 2005  Thomson Derwent
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015647040   **Image available**
WPI Acc No: 2003-709223/200367
XRPX Acc No: N03-566827
**Processing method for data elements stored in pruned data set, involves
indicating to user that directory structure, associated with immediate**
parent   directory , **exists within** main   directory **structure but
omitted from display**
Patent Assignee: ELECTRONIC DATA SYSTEMS CORP (ELDA-N); UGS PLM SOLUTIONS
   INC (UGSP-N)
Inventor: SOLOMON B J
Number of Countries: 101 Number of Patents: 004
Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week	
US 20030126115	A1	20030703	US 200134231	A	20011227	200367	B
WO 200358513	A2	20030717	WO 2002US38939	A	20021206	200367	
AU 2002351252	A1	20030724	AU 2002351252	A	20021206	200421	
EP 1459164	A2	20040922	EP 2002786900	A	20021206	200462	
			WO 2002US38939	A	20021206		

Priority Applications (No Type Date): US 200134231 A 20011227
Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
US 20030126115	A1		7	G06F-007/00	
WO 200358513	A2	E		G06F-017/50	

   Designated States (National): AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA
   CH CN CO CR CU CZ DE DK DM DZ EC EE ES FI GB GD GE GH GM HR HU ID IL IN
   IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ
   OM PH PL PT RO RU SD SE SG SK SL TJ TM TN TR TT TZ UA UG UZ VN YU ZA ZM
   ZW
   Designated States (Regional): AT BE BG CH CY CZ DE DK EA EE ES FI FR GB
   GH GM GR IE IT KE LS LU MC MW MZ NL OA PT SD SE SI SK SL SZ TR TZ UG ZM
   ZW

Patent No	Kind	Lan	Main IPC	Filing Notes
AU 2002351252	A1		G06F-017/50	Based on patent WO 200358513
EP 1459164	A2	E	G06F-003/033	Based on patent WO 200358513

   Designated States (Regional): AL AT BE BG CH CY CZ DE DK EE ES FI FR GB
   GR IE IT LI LT LU LV MC MK NL PT RO SE SI SK TR

Abstract (Basic): US 20030126115 A1
     NOVELTY - The method involves formatting a **tree** table associated
   with a data set and a display. A pruning indicator display element,
   included as a portion of the display, indicates to a user that a
   directory structure, associated with an immediate **parent** directory,
   exists within a **main   directory** structure but has been omitted from
   the display.
     DETAILED DESCRIPTION - An INDEPENDENT CLAIM is also included for a
   data processing system.
     USE - For processing data elements stored in pruned data set to
   compile and display the pruned data set in data processing system.
     ADVANTAGE - Enables displaying and compiling pruned directory
   listings, thus ensuring easy displaying of entire hierarchy associated
   with two components.
     DESCRIPTION OF DRAWING(S) - The figure shows the flow diagram of
   user interfacing method.
     pp; 7 DwgNo 3/3
Title Terms: PROCESS; METHOD; DATA; ELEMENT; STORAGE; PRUNE; DATA; SET;
   INDICATE; USER; DIRECTORY; STRUCTURE; ASSOCIATE; IMMEDIATE; **PARENT ;**
   DIRECTORY; EXIST; MAIN; DIRECTORY; STRUCTURE; OMIT; DISPLAY
Derwent Class: T01
International Patent Class (Main): **G06F-003/033 ; G06F-007/00 ;**
   G06F-017/50
International Patent Class (Additional): **G06F-017/30**
File Segment: EPI

DIALOG(R)File 350:Derwent WPIX
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014050853   **Image available**
WPI Acc No: 2001-535066/200159
XRPX Acc No: N01-397237
   Directory tree **reconfiguration for computer system, involves changing**
   primary   directory   tree **into secondary** tree **, based on selected**
   object and accordingly object position is changed related to objects in
   other tree
Patent Assignee: INT BUSINESS MACHINES CORP (IBMC)
Inventor: MARTINEZ A E; RAHN M D
Number of Countries: 001 Number of Patents: 001
Patent Family:
Patent No   Kind   Date   Applicat No   Kind   Date   Week
US 6271846   B1   20010807 US 98163919   A   19980930 200159 B

Priority Applications (No Type Date): US 98163919 A 19980930
Patent Details:
Patent No Kind Lan Pg   Main IPC   Filing Notes
US 6271846   B1   17 G06F-003/00

Abstract (Basic): US 6271846 B1
       NOVELTY - A **primary   directory   tree** is displayed in user
   viewable display. When an object is selected from the **primary**
   directory , the **primary   tree** is changed into a directory, based on
   user set locations, such that object lies within **root** node of new
   directory. The position of an object is modified corresponding to
   position of object in secondary directory.
       DETAILED DESCRIPTION - An INDEPENDENT CLAIM is also included for
   computer program product.
       USE - For computer system.
       ADVANTAGE - Ensures optimum management and organization of objects
   within directory **tree** without need for changing actual organization
   structure.
       DESCRIPTION OF DRAWING(S) - The figure shows the reanchor command
   given on a node of a **tree** .
       pp; 17 DwgNo 5B/6
Title Terms: DIRECTORY; **TREE** ; RECONFIGURE; COMPUTER; SYSTEM; CHANGE;
  PRIMARY; DIRECTORY; **TREE** ; SECONDARY; **TREE** ; BASED; SELECT; OBJECT;
  ACCORD; OBJECT; POSITION; CHANGE; RELATED; OBJECT; **TREE**
Derwent Class: T01
International Patent Class (Main): **G06F-003/00**
File Segment: EPI

013930261   **Image available**
WPI Acc No: 2001-414475/200144
XRPX Acc No: N01-306917
   **Similar featured-variable search for internet, involves assigning link
   which is followed so that lower order node approached from** main
   directory **, with minimum distance is** referred **, on** tree **structure
   index searching**
Patent Assignee: NIPPON TELEGRAPH & TELEPHONE CORP (NITE)
Number of Countries: 001 Number of Patents: 002
Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week	
JP 2001134594	A	20010518	JP 99316327	A	19991108	200144	B
JP 3615439	B2	20050202	JP 99316327	A	19991108	200511	

Priority Applications (No Type Date): JP 99316327 A 19991108
Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
JP 2001134594	A		14	G06F-017/30	
JP 3615439	B2		19	G06F-017/30	Previous Publ. patent JP 2001134594

Abstract (Basic): JP 2001134594 A
      NOVELTY - The lower order empty nodes of an hierarchy, are detected
   at time of construction of **tree** structure index. A link is assigned
   and is followed so that the lower order node which can be approached
   from **main directory** with minimum distance is **referred** , during
   searching **tree** structure index. Within the **leaf** node, the nearest
   neighbor point is searched based on near featured-variable vector.
      DETAILED DESCRIPTION - INDEPENDENT CLAIMS are also included for the
   following:
      (a) Similar featured-variable search apparatus;
      (b) Recording medium
      USE - For searching multimedia data on internet.
      ADVANTAGE - Even the intermediate nodes on **tree** structure can be
   determined easily by this method and similar featured-variable search
   efficiency is improved.
      DESCRIPTION OF DRAWING(S) - The figure shows the components of
   similar featured-variable search apparatus. (Drawing includes
   non-English language text).
      pp; 14 DwgNo 1/13
Title Terms: SIMILAR; VARIABLE; SEARCH; ASSIGN; LINK; FOLLOW; SO; LOWER;
   ORDER; NODE; APPROACH; MAIN; DIRECTORY; MINIMUM; DISTANCE; **REFER ; TREE**
   ; STRUCTURE; INDEX; SEARCH
Derwent Class: T01
International Patent Class (Main): **G06F-017/30**
International Patent Class (Additional): G06T-007/00
File Segment: EPI

011751794   **Image available**
WPI Acc No: 1998-168704/199815
XRPX Acc No: N98-133999
   Referred **-to variable determining method used by debugger of computer
   program – generating block** tree **structure information indicating
   nesting relationship between blocks generating section information and
   generating variable-** name **-to-block correspondence information**
Patent Assignee: FUJITSU LTD (FUIT)
Inventor: KITADATE Y
Number of Countries: 002 Number of Patents: 002
Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week	
US 5721924	A	19980224	US 93149777	A	19931110	199815	B
			US 96758299	A	19961203		
JP 3205406	B2	20010904	JP 92299891	A	19921110	200152	

Priority Applications (No Type Date): JP 92299891 A 19921110
Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
US 5721924	A		47	G06F-009/00	Cont of application US 93149777
JP 3205406	B2		22	G06F-009/45	Previous Publ. patent JP 6149589

Abstract (Basic): US 5721924 A
     The method comprises generating block **tree** structure information
   indicating a nesting relationship between blocks in the source program
   in the structure of a **tree** by corresponding a node of the **tree** to
   the block, where the node contains a pointer to the node corresponding
   to the outer block directly containing the block.
     The method further comprises generating variable- **name** -to-block
   correspondence information for storing, corresponding to a variable
   name defined in the source program, a set of blocks in which a
   variable having the variable **name** is defined, and
     determining the **referred** -to variable by searching the nodes in
   the **tree** structure information from the node of the block specified
   by the pointer in the section including the specific position to the
   root of the **tree** and selecting a variable having the specific
   variable **name** which is defined in the first node searched in the
   searching step and which also is included in blocks stored in the
   variable- **name** -to-block correspondence information corresponding to
   the variable **name** .
     USE – In a debugger, interpreter, etc. Obtaining a value of a
   referred -to variable defined in a source program having a specific
   variable **name** **referred** to at a specific position in a source
   program written in a language having a block structure.
     Dwg.3A/26
Title Terms: **REFER** ; VARIABLE; DETERMINE; METHOD; COMPUTER; PROGRAM;
  GENERATE; BLOCK; **TREE** ; STRUCTURE; INFORMATION; INDICATE; NEST; RELATED;
  BLOCK; GENERATE; SECTION; INFORMATION; GENERATE; VARIABLE; **NAME** ; BLOCK;
  CORRESPOND; INFORMATION
Derwent Class: T01
International Patent Class (Main): **G06F-009/00** ; **G06F-009/45**
International Patent Class (Additional): **G06F-011/36**
File Segment: EPI

DIALOG(R)File 350:Derwent WPIX
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011751794   **Image available**
WPI Acc No: 1998-168704/199815
XRPX Acc No: N98-133999
   Referred -to **variable determining method used by debugger of computer
 program - generating block** tree **structure information indicating
 nesting relationship between blocks generating section information and
 generating variable-** name **-to-block correspondence information**
Patent Assignee: FUJITSU LTD (FUIT)
Inventor: KITADATE Y
Number of Countries: 002 Number of Patents: 002
Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week	
US 5721924	A	19980224	US 93149777	A	19931110	199815	B
			US 96758299	A	19961203		
JP 3205406	B2	20010904	JP 92299891	A	19921110	200152	

Priority Applications (No Type Date): JP 92299891 A 19921110
Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
US 5721924	A		47	G06F-009/00	Cont of application US 93149777
JP 3205406	B2		22	G06F-009/45	Previous Publ. patent JP 6149589

Abstract (Basic): US 5721924 A
     The method comprises generating block **tree** structure information
 indicating a nesting relationship between blocks in the source program
 in the structure of a **tree** by corresponding a node of the **tree** to
 the block, where the node contains a pointer to the node corresponding
 to the outer block directly containing the block.
     The method further comprises generating variable- **name** -to-block
 correspondence information for storing, corresponding to a variable
 name defined in the source program, a set of blocks in which a
 variable having the variable **name** is defined, and
     determining the **referred** -to variable by searching the nodes in
 the **tree** structure information from the node of the block specified
 by the pointer in the section including the specific position to the
 root of the **tree** and selecting a variable having the specific
 variable **name** which is defined in the first node searched in the
 searching step and which also is included in blocks stored in the
 variable- **name** -to-block correspondence information corresponding to
 the variable **name** .
     USE - In a debugger, interpreter, etc. Obtaining a value of a
 referred -to variable defined in a source program having a specific
 variable **name**   **referred** to at a specific position in a source
 program written in a language having a block structure.
     Dwg.3A/26
Title Terms: **REFER** ; VARIABLE; DETERMINE; METHOD; COMPUTER; PROGRAM;
 GENERATE; BLOCK; **TREE** ; STRUCTURE; INFORMATION; INDICATE; NEST; RELATED;
 BLOCK; GENERATE; SECTION; INFORMATION; GENERATE; VARIABLE; **NAME** ; BLOCK;
 CORRESPOND; INFORMATION
Derwent Class: T01
International Patent Class (Main): **G06F-009/00** ; **G06F-009/45**
International Patent Class (Additional): **G06F-011/36**
File Segment: EPI

013525088/9
DIALOG(R)File 350:Derwent WPIX
(c) 2005 Thomson Derwent. All rts. reserv.

013525088   **Image available**
WPI Acc No: 2001-009294/200102
XRPX Acc No: N01-006988
**Implementing a tree system for distributed objects by storing in a parent
object the address of a son object if in the same process and information
sending enquiry back to central directory if not**
Patent Assignee: ALCATEL (COGE   ); ALCATEL SA (COGE   )
Inventor: BANCTEL F; PIETRE A
Number of Countries: 029 Number of Patents: 006
Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week	
EP 1041498	A1	20001004	EP 2000400870	A	20000330	200102	B
FR 2791788	A1	20001006	FR 994072	A	19990401	200102	
WO 200060452	A2	20001012	WO 2000FR802	A	20000330	200102	
AU 200036629	A	20001023	AU 200036629	A	20000330	200107	
AU 747472	B	20020516	AU 200036629	A	20000330	200244	
JP 2002541544	W	20021203	JP 2000609878	A	20000330	200309	
			WO 2000FR802	A	20000330		

Priority Applications (No Type Date): FR 994072 A 19990401
Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
EP 1041498	A1	F	9	G06F-017/30	

Designated States (Regional): AL AT BE CH CY DE DK ES FI FR GB GR IE IT
LI LT LU LV MC MK NL PT RO SE SI

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
FR 2791788	A1			G06F-012/08	
WO 200060452	A2	F		G06F-009/00	

Designated States (National): AU CA JP US

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
AU 200036629	A			G06F-009/00	Based on patent WO 200060452
AU 747472	B			G06F-009/00	Previous Publ. patent AU 200036629
					Based on patent WO 200060452
JP 2002541544	W		16	G06F-009/46	Based on patent WO 200060452

Abstract (Basic): EP 1041498 A1
    NOVELTY - A central directory (Pr0) controls the search for all
objects and includes a data structure (Tab0) which lists all parent/son
relationships with a process address for the final object. A parent
object (A) contains the address of a son object (B) if the latter is in
the same process but otherwise has information to send the enquiry back
to the central directory (Pr0) which uses the data structure (Tab0) to
search a different indicated process.
    USE - To manage a tree system for distributed objects
    ADVANTAGE - The search for an object is not frustrated by an
intermediate process being out of service and the central directory is
able to route enquiries to a process or corresponding redundant process
correctly using current system data
    DESCRIPTION OF DRAWING(S) - The drawing shows the central directory
and processes
    Central directory (Pr0)
    Data structure (Tab0)
    Parent object (A)
    Son object (BB)
    pp; 9 DwgNo 2/2
Title Terms: IMPLEMENT; TREE; SYSTEM; DISTRIBUTE; OBJECT; STORAGE; PARENT;
  OBJECT; ADDRESS; SON; OBJECT; PROCESS; INFORMATION; SEND; ENQUIRY; BACK;
  CENTRAL; DIRECTORY
Derwent Class: T01
International Patent Class (Main): G06F-009/00; G06F-009/46; G06F-012/08;
  G06F-017/30
International Patent Class (Additional): G06F-015/16
File Segment: EPI
Manual Codes (EPI/S-X): T01-J05B2B; T01-J05B3

26/5/20   (Item 20 from file: 350)
DIALOG(R)File 350:Derwent WPIX
(c) 2005 Thomson Derwent. All rts. reserv.

008052017   **Image available**
WPI Acc No: 1989-317129/198944
XRPX Acc No: N89-241416
    FIle management system for computing system - uses object data
  structures which add layer between user and data files allowing computer
  to refer to data structures
Patent Assignee: HEWLETT-PACKARD CO (HEWP); DYSART J A (DYSA-I)
Inventor: CROW W M; DYSART J A; MCBRIDE B W; MURDOCH B; SENIOR J R F;
  SHOWMAN P S; WHELAN C H; WILLIAMS P M; FRANCIS J R; SENIOR J R; WHELAN C
  R
Number of Countries: 013 Number of Patents: 016
Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week	
EP 339220	A	19891102	EP 89104082	A	19890308	198944	B
AU 8933074	A	19891026				198951	
US 4953080	A	19900828	US 88186516	A	19880425	199037	
CN 1046807	A	19901107				199129	N
AU 9213026	A	19920528	AU 8933074	A	19890417	199230	
			AU 9213026	A	19920319		
AU 9213027	A	19920528	AU 8933074	A	19890417	199230	
			AU 9213027	A	19920319		
AU 9213028	A	19920528	AU 8933074	A	19890417	199230	
			AU 9213028	A	19920319		
US 5175848	A	19921229	US 88186516	A	19880425	199303	
			US 90520308	A	19900507		
US 5185885	A	19930209	US 88186516	A	19880425	199308	
			US 90520328	A	19900507		
AU 638635	B	19930701	AU 9213026	A	19920319	199333	N
			AU 8933074	A	19890000		
AU 638636	B	19930701	AU 9213027	A	19920319	199333	N
			AU 8933074	A	19890000		
AU 638637	B	19930701	AU 9213028	A	19920319	199333	N
			AU 8933074	A	19890000		
CA 1326565	C	19940125	CA 597626	A	19890424	199409	
US 5625809	A	19970429	US 88186516	A	19880425	199723	
			US 90521856	A	19900507		
			US 92905172	A	19920624		
			US 94231861	A	19940422		
US 5899996	A	19990504	US 88186516	A	19880425	199925	
			US 90520308	A	19900507		
			US 92949591	A	19920922		
KR 9707759	B1	19970516	KR 895352	A	19890424	199942	

Priority Applications (No Type Date): US 88186516 A 19880425; US 90520308 A
  19900507; US 90520328 A 19900507; US 90521856 A 19900507; US 92905172 A
  19920624; US 94231861 A 19940422; US 92949591 A 19920922
Cited Patents: Jnl.Ref; A3..:9025; No-SR.Pub
Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
EP 339220	A	E	19		

    Designated States (Regional): BE CH DE FR GB IT LI NL

US 4953080	A		438		
AU 9213026	A			G06F-015/20	Div ex application AU 8933074
AU 9213027	A			G06F-015/20	Div ex application AU 8933074
AU 9213028	A			G06F-015/20	Div ex application AU 8933074
US 5175848	A		94	G06F-007/00	Div ex application US 88186516
					Div ex patent US 4953080
US 5185885	A		94	G06F-015/40	Div ex application US 88186516
					Div ex patent US 4953080
AU 638635	B			G06F-015/20	Div ex application AU 8933074
					Previous Publ. patent AU 9213026
AU 638636	B			G06F-015/20	Div ex application AU 8933074
					Previous Publ. patent AU 9213027
AU 638637	B			G06F-015/20	Div ex application AU 8933074

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                                    Previous Publ. patent AU 9213028
US 5625809    A     98 G06F-017/30  Div ex application US 88186516
                                    Cont of application US 90521856
                                    Cont of application US 92905172
                                    Div ex patent US 4953080
US 5899996    A        G06F-007/00  Div ex application US 88186516
                                    Cont of application US 90520308
                                    Div ex patent US 4953080
                                    Cont of patent US 5175848
CA 1326565    C        G06F-015/20
KR 9707759    B1       G06F-009/44
```

Abstract (Basic): EP 339220 A
    A file management system for a computer includes several,
application programs, (101,106), data files (221,223), class **data
structures** and object **data structures** (202,210). Each class **data
structure** includes a **reference** to one application program only of
the whole. Each object **data structure** includes a **reference** to one
class **data structure** of the whole and a **reference** to at least one
data file from the whole. The use of object **data structures** adds a
layer between a user of the computer and data files allowing the
computer to **refer** to an object **data structure** and access files,
associated with the object **data structure** , using a tag which is
inaccessible to the user. The user **refers** to an object based on the
objects physical location on the screen.
    Additionally, the file management system includes several link
data structures each link **data structure** includes a **reference**
to a first object **data structure** of the memory object **data
structures** which serve as a **parent** object of the link and including
a **reference** to a second object **data structure** of the many, which
serves as a child object of the links.
    USE/ADVANTAGE - Management of data within computer system. System
allows user to file and use their data in any number of locations by
linking those locations to actual data object.
    2/83
Title Terms: FILE; MANAGEMENT; SYSTEM; COMPUTATION; SYSTEM; OBJECT; DATA;
  STRUCTURE; ADD; LAYER; USER; DATA; FILE; ALLOW; COMPUTER; **REFER** ; DATA;
  STRUCTURE
Derwent Class: T01
International Patent Class (Main): **G06F-007/00** ; **G06F-009/44** ;
  G06F-015/20 ; **G06F-015/40** ; **G06F-017/30**
International Patent Class (Additional): **G06F-001/00** ; **G06F-013/14** ;
  G06F-015/419
File Segment: EPI

```
Set     Items     Description
S1     6137395    ROOT? ? OR PARENT? ? OR LEAF? ? OR SON OR SONS OR BRANCH? -
                  OR TWIG? ? OR FATHER? ? OR STEM? ?
S2     1103080    BTREE OR TREE OR TREES OR TRIES
S3       33835    DATASTRUCT? OR DATA()STRUCTURE?
S4      107963    ACCESS()(PATH OR PATHS OR ROUTE? OR MEANS) OR LAP OR LOGIC-
                  AL()ACCESS?
S5     7751670    NAME? OR (CHARACTER? OR ALPHANUMERIC)()(SEQUENC? OR STRING-
                  ?)
S6        5818    (CENTRAL OR PRIMAR? OR MAIN)(2N)(DIRECTORY OR DIRECTORIES)
S7        6585    (LOGICAL OR PHYSICAL)(N)(NAME? OR ADDRESS?)
S8      801269    (PROCESS OR PROCESSES OR PROGRAM? OR ENVIRONMENT? OR OPERA-
                  TING()SYSTEM?)(2N)(SAME? OR CONTAIN? OR WITHIN OR "WHITH"()"I-
                  N" OR EMBED? OR INTEGRAT? OR INTEGRAL OR MATCHING OR IDENTICA-
                  L? OR MATCHED?)
S9     8379785    RETURN? OR REFER? OR REDIRECT? OR DIRECTED OR DIRECTING
S10      64590    S1(10N)S2
S11        170    S8(S)S10
S12         10    S11(S)(S4 OR S5 OR S6)
S13         16    S11(S)S9
S14         21    S12 OR S13
S15          1    S7(S)S11
S16         21    S14 OR S15
S17         16    RD (unique items)
S18          8    S17 NOT PY>1999
S19       2473    S1(5N)S8
S20         45    S19(S)S2
S21         49    S20 OR S18
S22         33    RD (unique items)
S23         28    S22 NOT PY>1999
File 275:Gale Group Computer DB(TM) 1983-2005/Mar 18
         (c) 2005 The Gale Group
File  47:Gale Group Magazine DB(TM) 1959-2005/Mar 18
         (c) 2005 The Gale group
File  75:TGG Management Contents(R) 86-2005/Mar W1
         (c) 2005 The Gale Group
File 636:Gale Group Newsletter DB(TM) 1987-2005/Mar 18
         (c) 2005 The Gale Group
File  16:Gale Group PROMT(R) 1990-2005/Mar 18
         (c) 2005 The Gale Group
File 624:McGraw-Hill Publications 1985-2005/Mar 18
         (c) 2005 McGraw-Hill Co. Inc
File 484:Periodical Abs Plustext 1986-2005/Mar W2
         (c) 2005 ProQuest
File 613:PR Newswire 1999-2005/Mar 18
         (c) 2005 PR Newswire Association Inc
File 813:PR Newswire 1987-1999/Apr 30
         (c) 1999 PR Newswire Association Inc
File 141:Readers Guide 1983-2005/Dec
         (c) 2005 The HW Wilson Co
File 239:Mathsci 1940-2005/Apr
         (c) 2005 American Mathematical Society
File 696:DIALOG Telecom. Newsletters 1995-2005/Mar 17
         (c) 2005 The Dialog Corp.
File 553:Wilson Bus. Abs. FullText 1982-2004/Dec
         (c) 2005 The HW Wilson Co
File 621:Gale Group New Prod.Annou.(R) 1985-2005/Mar 18
         (c) 2005 The Gale Group
File 674:Computer News Fulltext 1989-2005/Mar W2
         (c) 2005 IDG Communications
File  88:Gale Group Business A.R.T.S. 1976-2005/Mar 17
         (c) 2005 The Gale Group
File 160:Gale Group PROMT(R) 1972-1989
         (c) 1999 The Gale Group
File 635:Business Dateline(R) 1985-2005/Mar 18
         (c) 2005 ProQuest Info&Learning
File  15:ABI/Inform(R) 1971-2005/Mar 18
         (c) 2005 ProQuest Info&Learning
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File    9:Business & Industry(R) Jul/1994-2005/Mar 17
          (c) 2005  The Gale Group
File   13:BAMP 2005/Mar W1
          (c) 2005  The Gale Group
File 810:Business Wire 1986-1999/Feb 28
          (c) 1999 Business Wire
File 610:Business Wire 1999-2005/Mar 18
          (c) 2005 Business Wire.
File 647:CMP  Computer Fulltext 1988-2005/Feb W4
          (c) 2005 CMP Media, LLC
File   98:General Sci Abs/Full-Text 1984-2004/Dec
          (c) 2005 The HW Wilson Co.
File 148:Gale Group Trade & Industry DB 1976-2005/Mar 18
          (c)2005 The Gale Group
File 634:San Jose Mercury  Jun 1985-2005/Mar 17
          (c) 2005 San Jose Mercury News
```

23/3,K/1   (Item 1 from file: 275)
DIALOG(R)File 275:Gale Group Computer DB(TM)
(c) 2005 The Gale Group. All rts. reserv.

01793575   SUPPLIER NUMBER: 16981779   (USE FORMAT 7 OR 9 FOR FULL TEXT)
Navigating NetWare 4.1 (Novell's NetWare 4.1, network operating system)
   (includes related article on converting from version
   3.X)((Interoperability supplement))(Product Announcement)
Kalman, Steve
LAN Magazine, v10, n5, pS8(5)
May, 1995
DOCUMENT TYPE: Product Announcement   ISSN: 0898-0012   LANGUAGE:
   ENGLISH   RECORD TYPE: FULLTEXT; ABSTRACT
WORD COUNT: 4352   LINE COUNT: 00337

...   recreate it in a new environment.
   In NetWare 4.1, a program called DSMerge allows **trees** to be merged.
The ability to rename containers and to move entire **branches** of the **tree**
are essential to the **process** . (**Containers** off the **root** must have
unique **names** .) These new functions are available to every administrator
as part of NDS management, regardless of...

DIALOG(R)File 275:Gale Group Computer DB(TM)
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01371465   SUPPLIER NUMBER: 08761840   (USE FORMAT 7 OR 9 FOR FULL TEXT).
A mini-browser for Pascal and C++. (tutorial)
Entsminger, Gary
Computer Language, v7, n8, p45(12)
August, 1990
DOCUMENT TYPE: tutorial   ISSN: 0749-2839   LANGUAGE: ENGLISH
RECORD TYPE: FULLTEXT; ABSTRACT
WORD COUNT: 2973   LINE COUNT: 00230

...   a complex object such as a program or module is as a hierarchy or
family **tree** of objects. Each object in the list can be simple oust data,
for example) or...

...Complex objects are either base or derived. Base objects are at the top
of the **tree** ; derived objects are on **branches** .
     A **tree**   **contains** a **program** (a big object), and each node of the
tree contains a program module (a smaller object). The modules can be
trees themselves ad infinitum. An object has its own internal data and an
interface through which...

02075278   SUPPLIER NUMBER: 06752023
Garbage collection for Prolog based on WAM. (technical)
Appleby, Karen; Carlsson, Mats; Haridi,Seif; Sahlin, Dan
Communications of the ACM, v31, n6, p719(23)
June, 1988
DOCUMENT TYPE: technical   ISSN: 0001-0782   LANGUAGE: English
RECORD TYPE: Fulltext; Abstract
WORD COUNT: 8222   LINE COUNT: 00814

...   backtracking. In this case it is only reachable via a choice point.
Since an environment **refers** to its parent environment and several
environments may have the **same   parent** , the **environments** form a **tree**
which has one active **leaf** , E, and zero or more inactive leaves.
      Figure 3 shows the tree structure of the...